

# SERVICE VOTER

## USER MANUAL

Version 1.0

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# INTRODUCTION TO PROJECT

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## 1.1 INTRODUCTION

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**Service Voter** is basically an **on-line** Application, Which is unparallel and comprehensive that provides primary registration of the service electors of India.

The citizens of india who are working other place in india and their native home is another place (like Central Armed Forces of India) , are under in Service Voter Category. For Service Voter registration form is known Form2.

## 1.2 List of Keywords and Acronyms

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ECI: Election Commission of India  
DG: Director General  
Form2: Form for service elector to get enrolled in electoral roll  
CRPF: Central Reserve Police Forces  
BSF: Border Security Forces  
ITBP: Indo-Tibetan Border Police  
SSB: Sashastra Seema Bal  
CISF: Central Industrial Security Force  
RPF: Railway Police Force  
NSG: National Security Guards  
SPG: Special Protection Group

## 1.3 OBJECTIVE

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The main objective of this application is to make able our service electors to cast their valuable votes at the time of elections for a stronger democracy.

## 1.4 Scope

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# OVERALL DESCRIPTION

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## 2.1 User Classes & Characteristics

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In this project there are basically three types of users – ECI User, DG User and Commander User. Entire website is controlled by ECI. DG users are the users authorized by the admin and can access the website to submit their battalion commanders and battalion information. Battalion users should have the rights to submit the Form 2 for cadets.

## 2.2 H/W & S/W Requirements

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### **HARDWARE REQUIREMENTS:-**

- RAM : 2GB or above
- HARD DISK : 40GB or above
- OPERATING SYSTEM : Windows XP-2002 with service pack 3, Windows 7
- SYSTEM MEMORY : 500MB
- PROCESSOR : Pentium-4 or above

### **SOFTWARE REQUIREMENTS:-**

- USER INTERFACE : ASP.NET
- BUSINESS LOGIC : C#
- DATABASE : SQL SERVER 2008
- EDITING TOOL : Visual Studio 2008
- WEB SERVER : IIS



## 2.3 Tools & Platforms used

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**Technology used:** ASP.NET (.NET FRAMEWORK)

**Front End**

- ASP.NET With C#
- HTML
- Java Script

**Tools used:** Visual Studio 2008 and CSS are used.

**Reporting Tool:** Crystal Reports 10.0

**Testing Server:** IIS

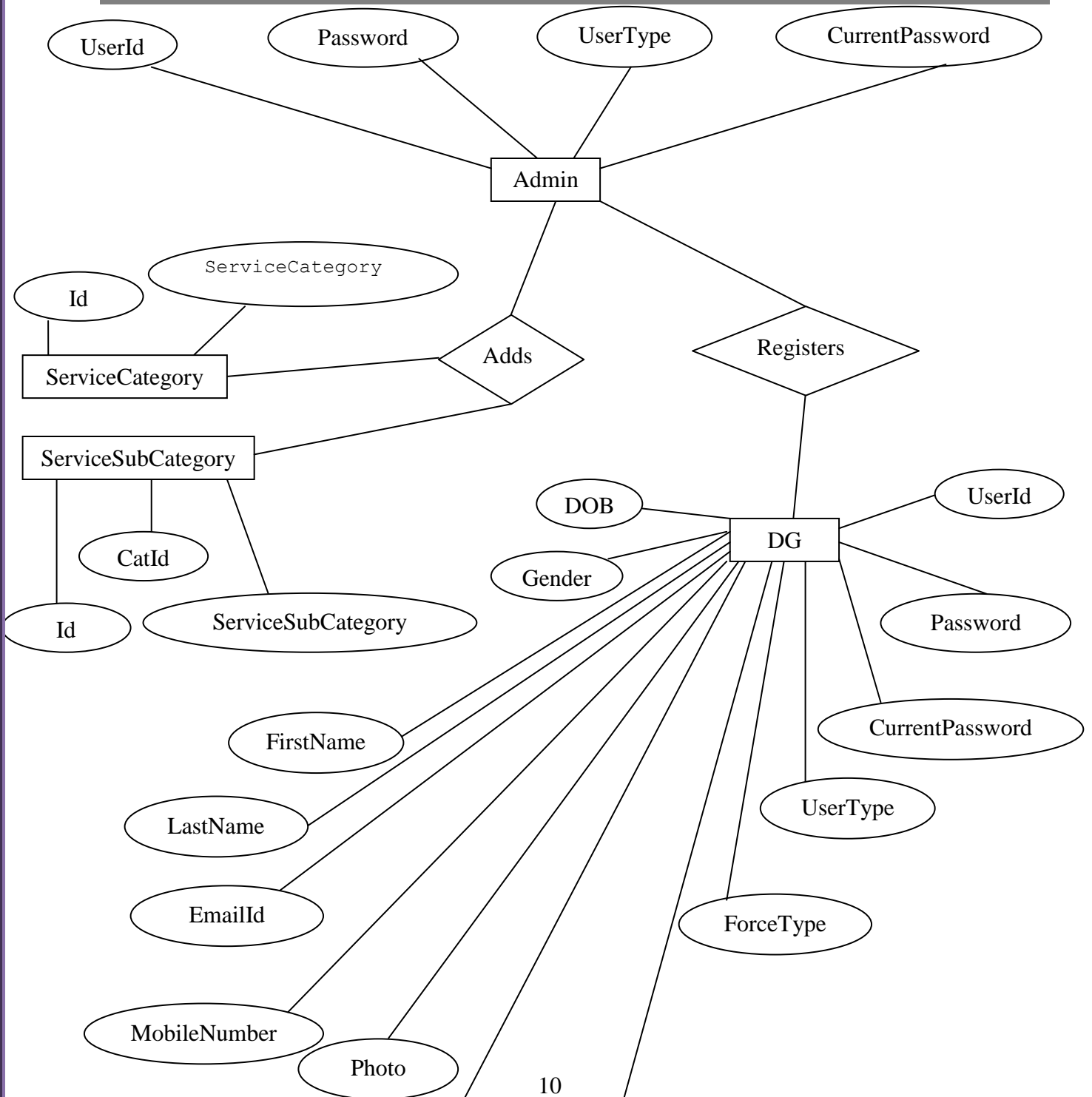
**Production Server:** Visual Studio 2008

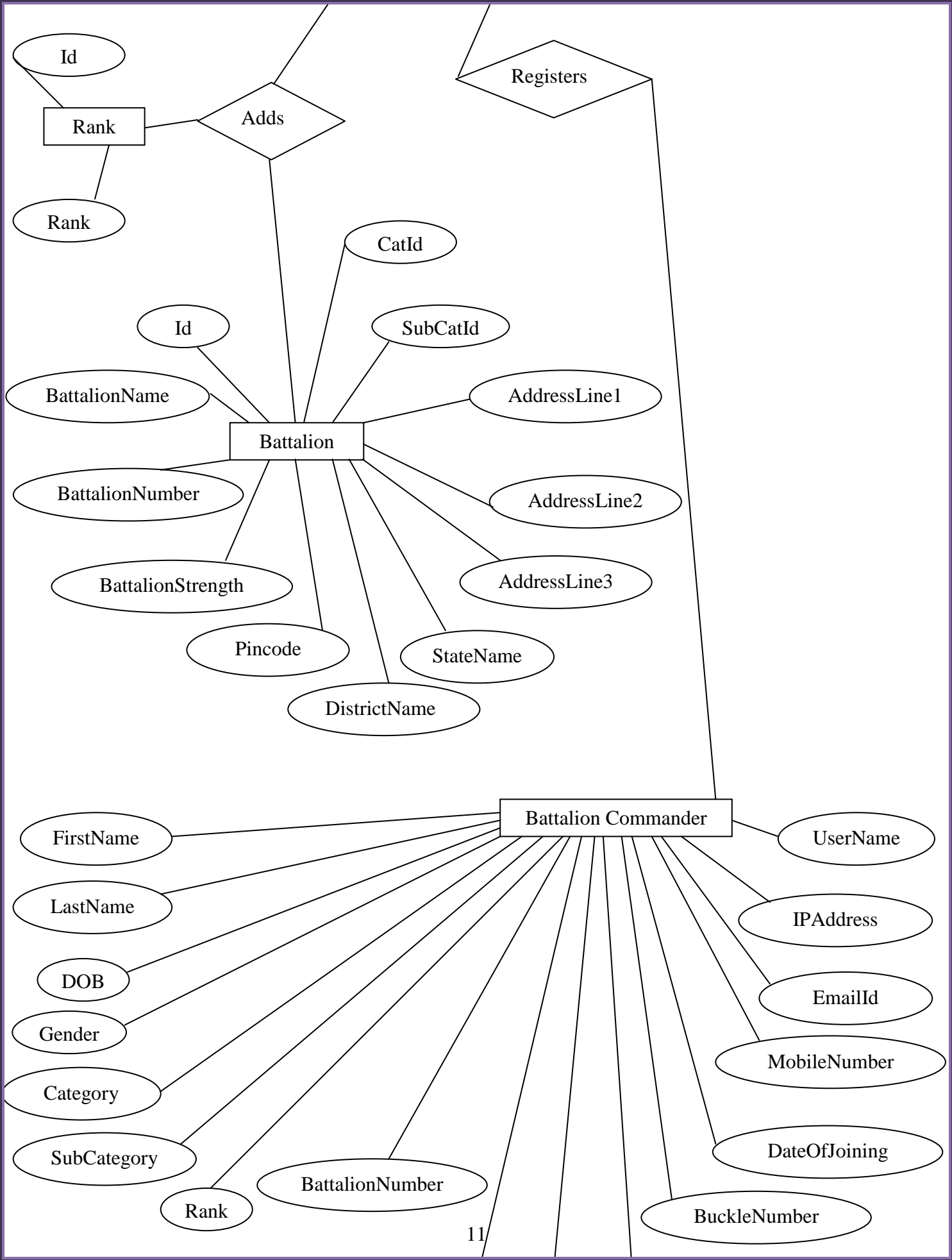
**Back End**

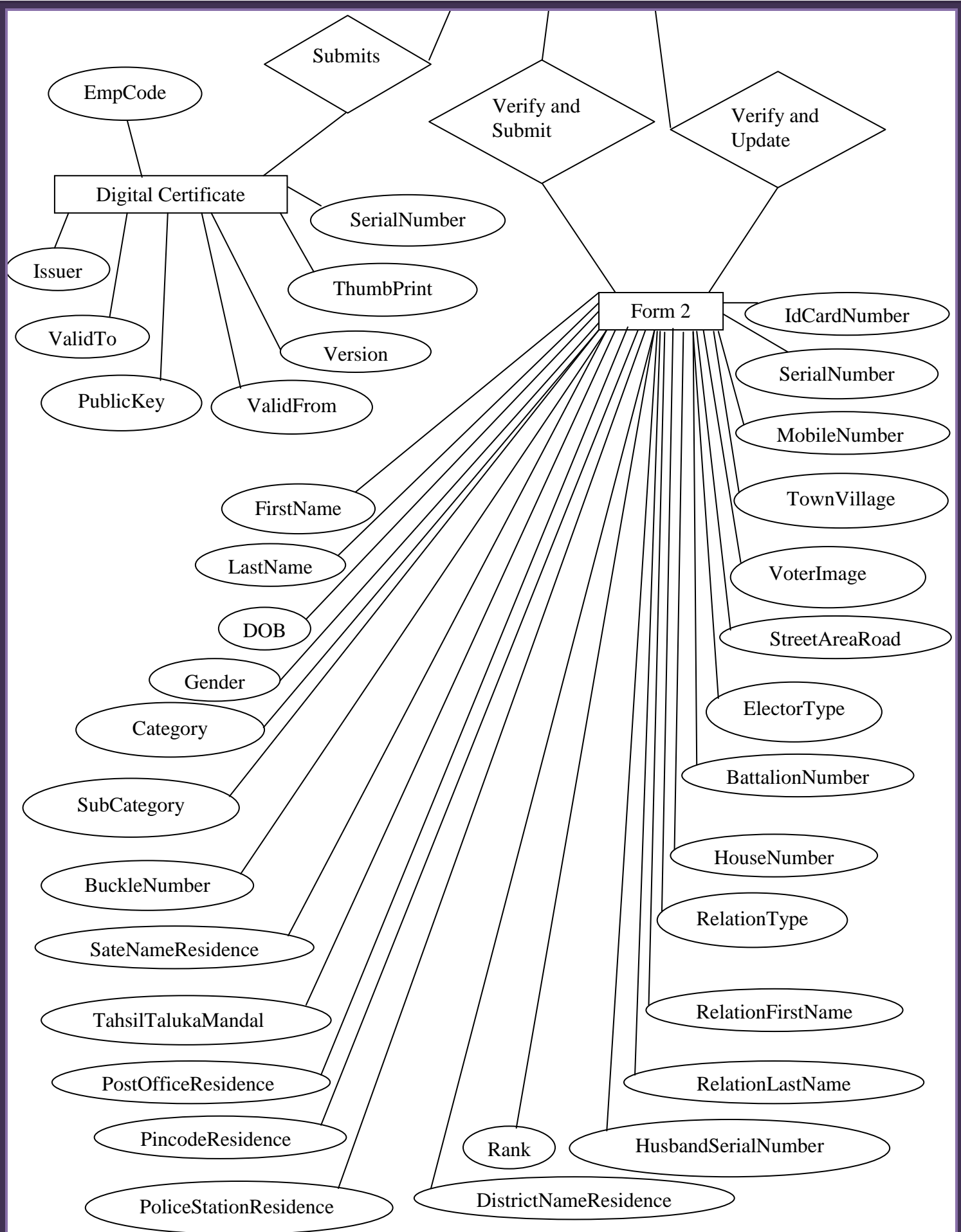
- **SQL SERVER 2008:** Using Stored Procedure, Query Desining
  - Security
  - Performance
  - Scalability
  - Reliability

# SYSTEM DESIGN

## 3.1 Entity Relationship (E-R) DIAGRAM







## 3.2 Database Structure

**Table Name: Login**

S. No.	Column Name	Data Type	Description
1.	ID	Bigint	Auto increment Identity Column
2.	UserId	varchar	Unique Id used for login
3.	Password	varchar	
4.	UserType	varchar	Defines the type of user like admin, DG, Battalion
5.	ForceType	varchar	Defines the type of force like (CISF, BSF etc.)
6.	IsActive	bit	Status as true or false
7.	currentpassword	varchar	

**Table Name: m\_state**

S. No.	Column Name	Data Type	Description
1	CCODE	int	Auto incremented identity field
2	ST_NAME	varchar	State name in English language
3	ST_HNAME	varchar	State name in Hindi language
4	SHORTNAME	char	State name in abbreviated form
5	ST_TYPE	char	State type as S for state and U for union territory
6	ST_HFOCNAME	varchar	
7	ST_NAME_V1	varchar	State name in regional language
8	ST_CODE	char	Unique code for state like (S01, S02, U01 etc.)

**Table Name: SERVICE\_SUB\_CATEGORY**

S. No.	Column Name	Data Type	Description
1	Id	int	Auto incremented identity field
2	CatId	int	This field belongs to "service_category" table column "Id" as foreign key
3	SubAbbr	varchar	Abbreviated form of sub-category name
4	ServiceSubCategory	varchar	Sub-category name (like border security Forces etc.)

**Table Name: m\_district**

S. No.	Column Name	Data Type	Description
1	ST_CODE	varchar	Unique code for state like (S01, S02, U01 etc.)
2	DIST_NO	int	District number (like 1, 2, 3... etc.)
3	DIST_NAME	varchar	District name in English language

**Table Name: UserType**

S. No.	Column Name	Data Type	Description
1	ID	Int	Auto incremented identity field
2	usertype	varchar	User type like admin,DG, Battalion

**Table Name: CATRANK**

S. No.	Column Name	Data Type	Description
1	Id	bigint	Auto incremented identity field
2	Rank	nvarchar	Rank of the Central Armed Police Forces

**Table Name: SERVICE\_CATEGORY**

S. No.	Column Name	Data Type	Description
1	Id	int	Auto incremented identity field
2	ServiceCategory	varchar	Category of service (like Central Armed Police Forces)

**Table Name: DS\_INFORMATION**

S. No.	Column Name	Data Type	Description
1	ccode	int	Auto incremented identity field
2	UserId	varchar	Unique Id used for login
3	SerialNo	varchar	Serial number of the certificate
4	ThumbPrint	varchar	Thumbprint of the certificate
5	ValidFrom	smalldatetime	Start date of validity of certificate
6	ValidTo	smalldatetime	End date of validity of certificate
7	Version	int	Version number of certificate
8	Issuer	varchar	Name of the issuer(i.e. certifying authority)
9	PublicKey	varchar	Public key of certificate
10	HashKey	varchar	
11	EmpCode	varchar	Employee code of the commander

**Table Name: BATTALIAN**

S. No.	Column Name	Data Type	Description
1	Id	int	Auto incremented identity field
2	CatId	int	This field belongs to “service_category” tab as foreign key
3	SubCatId	varchar	This field belongs to “ <b>SERVICE_SUB_CATEGORY</b> ” table column “ServiceSubCategory” as foreign key
4	BattalianName	varchar	Name of Battalion
5	BattalianNumber	varchar	Number of the Battalion
6	BattalionStrength	bigint	Strength of the Battalion
7	AddressLine1	nvarchar	Address of Battalion
8	AddressLine2	nvarchar	Address of Battalion
9	AddressLine3	nvarchar	Address of Battalion
10	StateName	nvarchar	State code of the state
11	DistrictName	nvarchar	DIST_NO of the district
12	PinCode	numeric	Pin code the related place
13	AddedBy	nvarchar	Username who is added the battalion

**Table Name: NODAL\_OFFICER**

S. No.	Column Name	Data Type	Description
1	ccode	int	Auto incremented identity field
2	FirstName	nvarchar	First name of Director General(DG)
3	LastName	nvarchar	Last name of DG
4	DateOfBirth	smalldatetime	Date of birth of DG
5	Gender	nvarchar	Gender of DG
6	MobileNumber	nvarchar	Mobile No. of the DG
7	EmailId	nvarchar	Email Id of DG
8	UserId	nvarchar	Userid of DG (Primary Key of the table)
9	Photo	image	Photo of DG
10	AddedOn	smalldatetime	On which date , DG is registered
11	IsActive	bit	Status of DG(True, False)
12	AddedBy	nvarchar	Userid who is registered DG

**Table Name: BATTALIONMASTER**

S. No.	Column Name	Data Type	Description
1	ccode	bigint	Auto incremented identity field
2	FirstName	nvarchar	Battalion Commander's First name
3	LastName	nvarchar	Battalion Commander's Last name
4	DateOfBirth	smalldatetime	Battalion Commander's Date of birth
5	Gender	nvarchar	Gender of the Battalion Commander
6	Category	int	This field belongs to "service_category" table column "Id" as foreign key
7	SubCategory	nvarchar	This field belongs to " <b>SERVICE_SUB_CATEGORY</b> " table column "ServiceSubCategory" as foreign key
8	Rank	bigint	This field belongs to "Catrank" table column "Id" as foreign key
9	BattalianNumber	nvarchar	This field belongs to " <b>BATTALIAN</b> " table column "Id" as foreign key
10	BuckleNumber	nvarchar	Service/Buckle number of Battalion Commander
11	DateOfJoining	smalldatetime	Date of joining of Battalion Commander in that Battalion
12	MobileNumber	nvarchar	Mobile no. of Battalion commander
13	EmailId	nvarchar	Email-Id of Battalion commander
14	IpAddress	nvarchar	IP Address of the that connection where Commander is registered
15	AddedOn	datetime	On which date , commander is registered
16	Username	nvarchar	Username of the Battalion Commander (Primary Key of the table)
17	AddedBy	nvarchar	Userid who is registered Battalion Commander



**Table Name: FORM2**

S. No.	Column Name	Data Type	Description
1	ccode	bigint	Auto incremented identity field
2	SerialNumber	nvarchar	Unique number given for each form 2 submission.
3	FirstName	nvarchar	First Name of elector
4	LastName	nvarchar	Last name of elector
5	DateOfBirth	smalldatetime	Date of birth of elector
6	Gender	nvarchar	Gender of elector
7	IdCardNumber	nvarchar	EPIC number if elector has it already
8	ElectorType	nvarchar	Type of service elector(member or wife)
9	HusbandSerialNumber	nvarchar	SerialNumber of the husband if elector type is wife
10	RelationFirstName	nvarchar	Relative First name of the elector
11	RelationLastName	nvarchar	Relative last name of the elector
12	RelationType	nvarchar	Relation type (Father,Mother etc)
13	Category	int	This field belongs to “service_category” table column “Id” as foreign key
14	SubCategory	nvarchar	This field belongs to “ <b>SERVICE_SUB_CATEGORY</b> ” table column “ServiceSubCategory” as foreign key
15	Rank	nvarchar	This field belongs to “Catrank” table column “Id” as foreign key
16	BattalianNumber	nvarchar	This field belongs to “ <b>BATTALIAN</b> ” table column “Id” as foreign key
17	BuckleNumber	nvarchar	Service/Buckle Number of elector
18	StateNameResidence	nvarchar	State Code of elector’s Residence
19	DistrictNameResidence	nvarchar	District number of elector’s residence
20	HouseNumber	nvarchar	House no of elector’s residence
21	StreetAreaRoad	nvarchar	Street Name of elector’s residence
22	TownVillage	nvarchar	Town/Village of elector’s residence
23	TahsilTalukaMandal	nvarchar	Tehsil/Taluka/Mandal of elector’s residence
24	PostOfficeResidence	nvarchar	Post Office of elector’s residence
25	PincodeResidence	nvarchar	Pincode of elector’s residence
26	PoliceStationResidence	nvarchar	Police Station of elector’s residence
27	voterimage	image	Photo of Elector in binary format
28	MobileNumber	nvarchar	Mobile Number of Elector
29	AddedOn	datetime	Date when elector is registered
30	UserId	nvarchar	Userid who is registered Elector

# PROJECT MODULES

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## 4.1 Administrator

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**Create Login for Director General:** Admin can create the login for Director General. Using these credentials the DG can login to the system and can perform the authorized tasks.

**Add Category:** Admin can add category of service electors. At present there is only one category (i.e. Central Armed Forces). In future this service can be extended by adding new categories namely Defence and Embassy.

**Add SubCategory:** Admin can add subcategory under a given category for service elector.

**Reports:**

- a. How many users are registered?
- b. How many Form2 are submitted?
- c. How many DG are registered?
- d. How many Commanders are registered?
- e. How many Commanders are under each DG?

## 4.2 Director General

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Director General gets his login credential from the admin. Using this credentials he can login to the system and change his password. He is authorized to perform some specialized task. These are listed below.

**Add Rank:** DG has the authority to specify the ranks in particular service subcategory.

**Add Battalion:** DG has the authority to add battalions and its information like battalion name, battalion number, strength and address. He can also modify this information as needed.

**Add Battalion Commander:** A DG will create login for battalion commander by registering the details like First name, Last name, DOB, Gender, Rank, Battalion Number, Buckle/Service Number, Date Of joining, Mobile Number, Email-ID, IP address and photo with credential details (username, password).

## 4.3 Battalion Commander

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In Battalion commander module, Form 2 is submitted by a commander who is registered by director general. Task under this modules are.

**Digital Certificate Submission:** The primary requirement for battalion commander to submit a Form 2 for service elector is that he must posses a digital certificate issued by an authorized certifying authority. Battalion commander at first needs to register his certificate with this application and only then he is authorized to submit Form 2.

**Service Voter Registration/Form 2 Submission:** Once the battalion commander has registerd his digital certificate with this application, he can now fill the service voter registration form (i.e. Form 2). After successful registration he will get the serial number of the registration which can be used for future use like checking the staus of the form and modification of any information.

**Update Service Voter Information:** This module allows battalion commander to update the information of a service voter.